

155 SHERIDAN STRUCTURAL DESIGN CONCEPT

MKL | SI | 16-0020 | 3/13/17

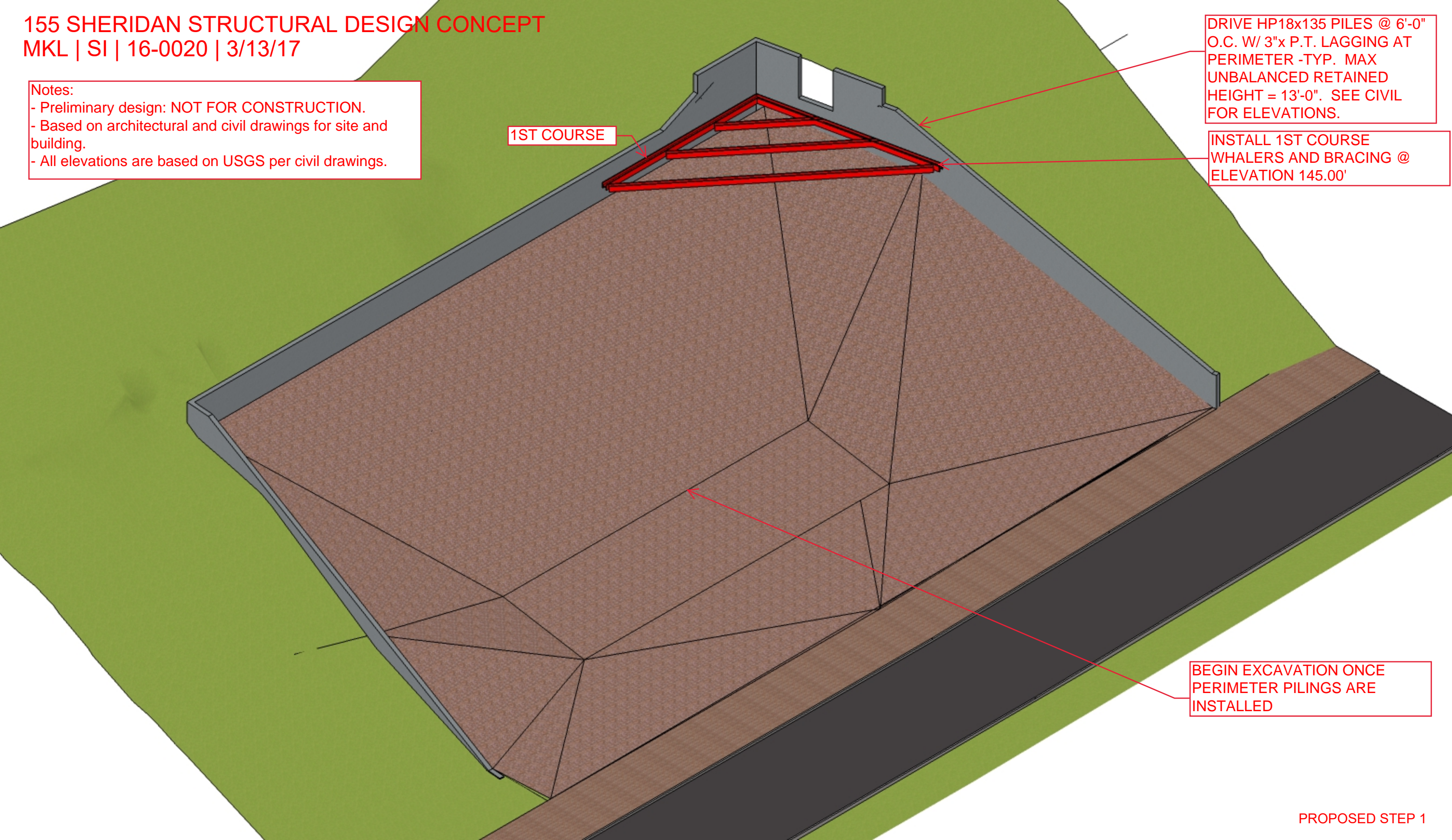
Notes:
- Preliminary design: NOT FOR CONSTRUCTION.
- Based on architectural and civil drawings for site and building.
- All elevations are based on USGS per civil drawings.

DRIVE HP18x135 PILES @ 6'-0" O.C. W/ 3"x P.T. LAGGING AT PERIMETER -TYP. MAX UNBALANCED RETAINED HEIGHT = 13'-0". SEE CIVIL FOR ELEVATIONS.

INSTALL 1ST COURSE WHALERS AND BRACING @ ELEVATION 145.00'

1ST COURSE

BEGIN EXCAVATION ONCE PERIMETER PILING ARE INSTALLED



INSTALL 2ND COURSE OF WHALERS (HP16x121) AND BRACES (HP18x135 @ 12FT) @ ELEV. 138.00'

1ST COURSE

2ND COURSE

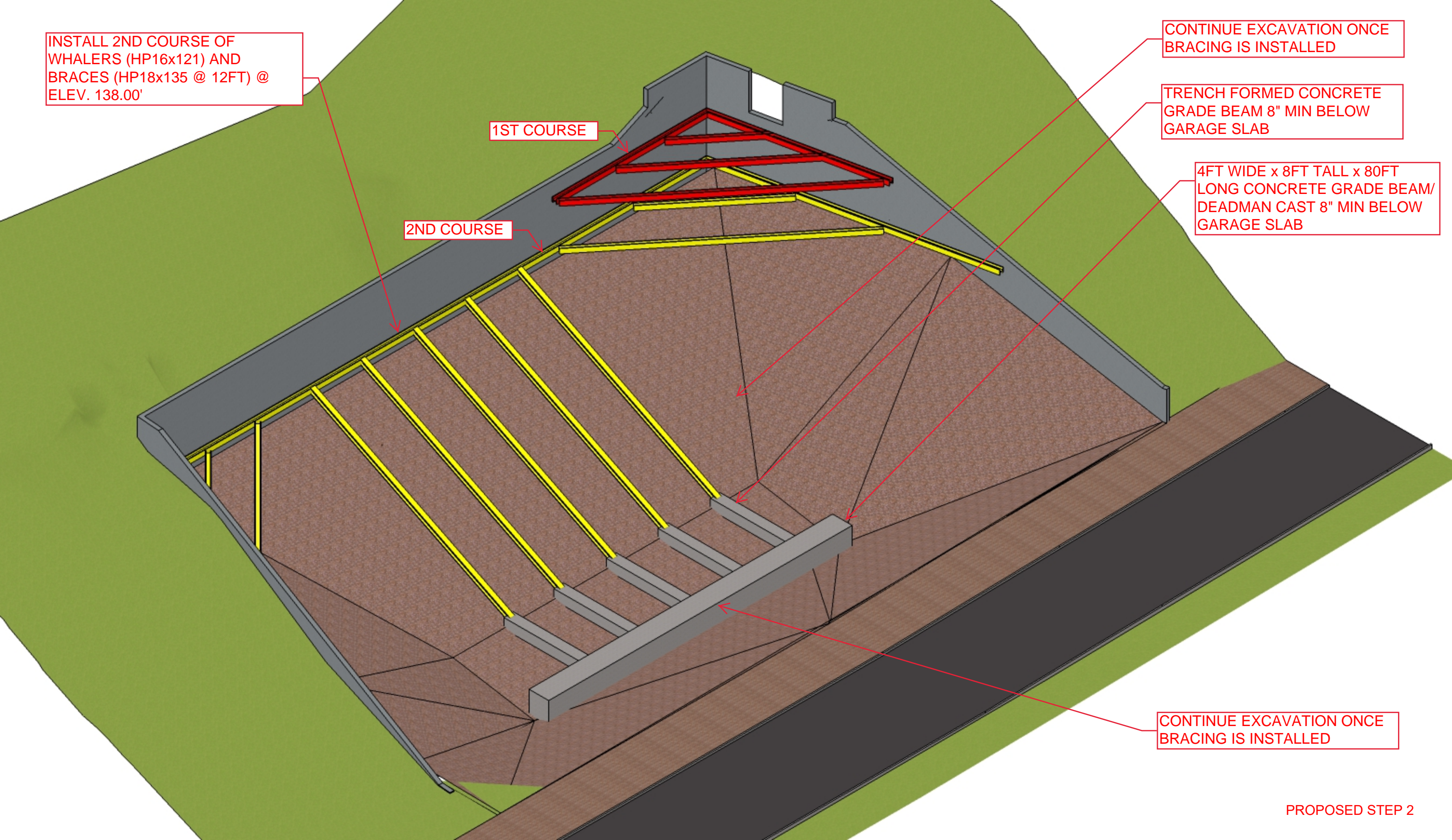
CONTINUE EXCAVATION ONCE BRACING IS INSTALLED

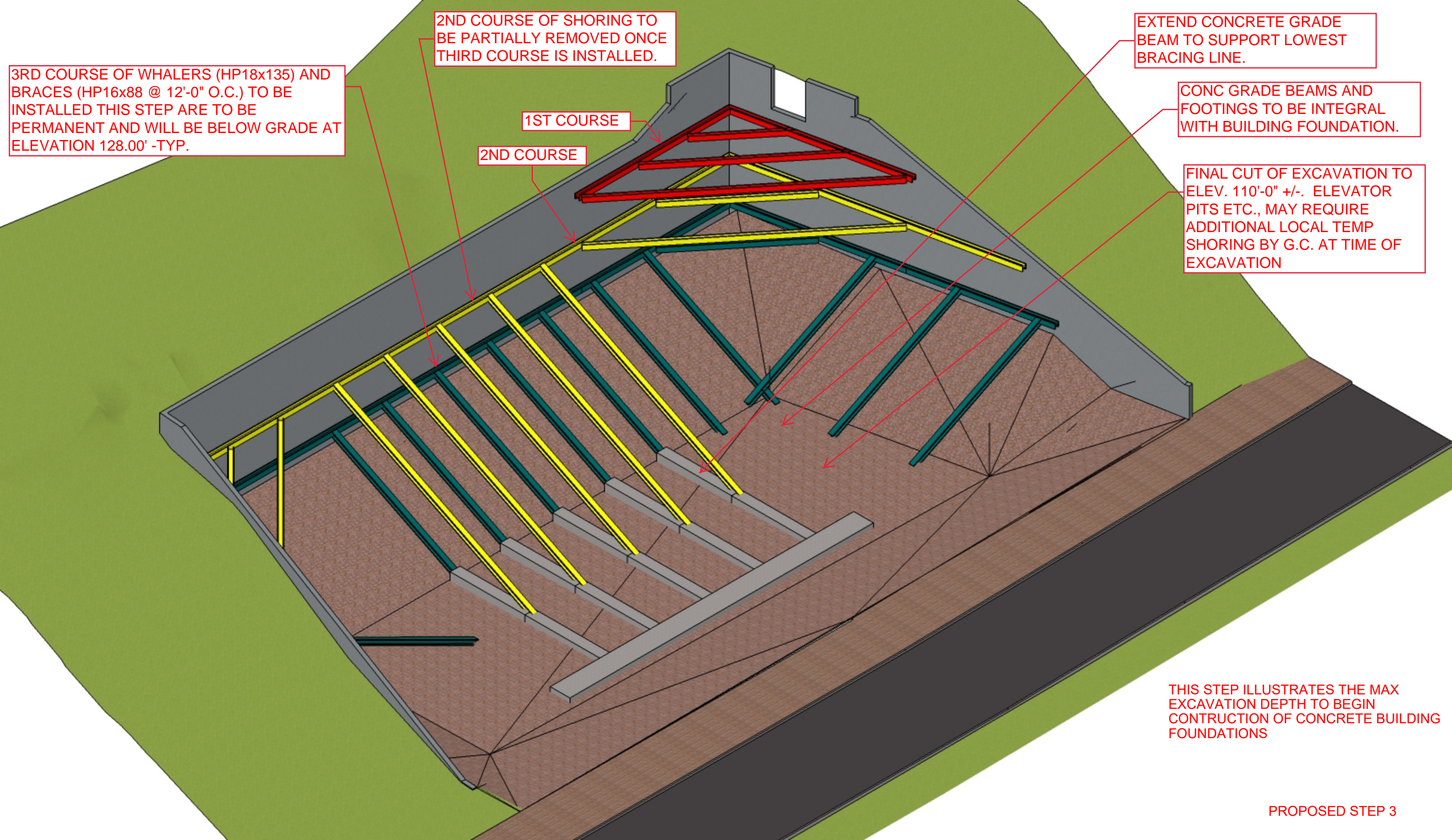
TRENCH FORMED CONCRETE GRADE BEAM 8" MIN BELOW GARAGE SLAB

4FT WIDE x 8FT TALL x 80FT LONG CONCRETE GRADE BEAM/DEADMAN CAST 8" MIN BELOW GARAGE SLAB

CONTINUE EXCAVATION ONCE BRACING IS INSTALLED

PROPOSED STEP 2





CORNER BRACING THIS SIDE TO REMAIN

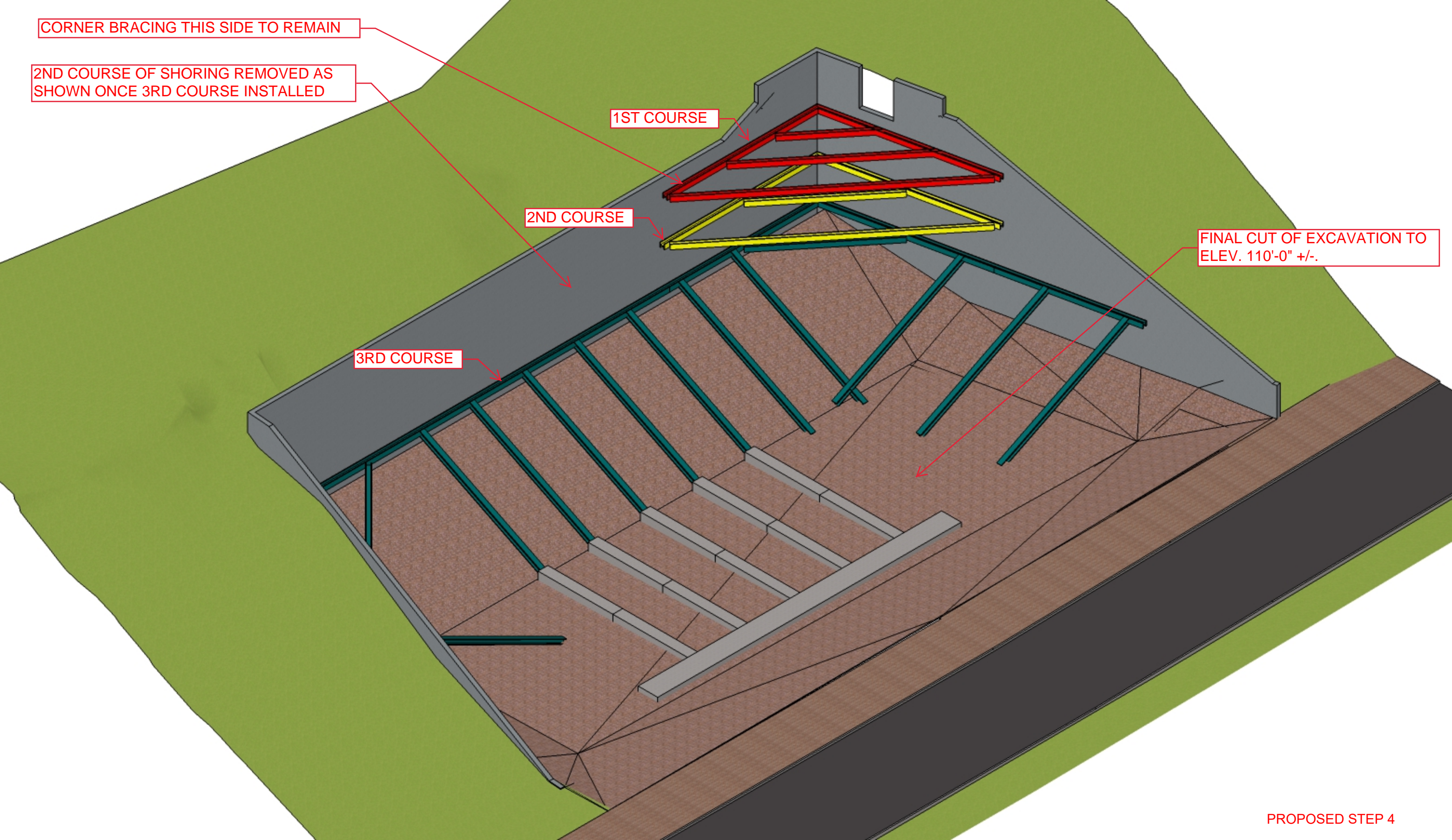
2ND COURSE OF SHORING REMOVED AS SHOWN ONCE 3RD COURSE INSTALLED

1ST COURSE

2ND COURSE

3RD COURSE

FINAL CUT OF EXCAVATION TO ELEV. 110'-0" +/-.



PERMANENT BRACING TO REMAIN.

1ST COURSE

2ND COURSE

3RD COURSE

BEGIN CONSTRUCTION OF CONC FOUNDATION. 3FT & 4FT WIDE FOOTINGS BEARING ON SOIL W/ 18" CONCRETE EXTERIOR WALLS. ASSUMING 3,000PSF BEARING PRESSURE (TO BE CONFIRMED)

BRACING TO REMAIN AT THIS PHASE, BUT WILL BE CUT OFF AND ATTACHED TO FOUNDATION WALL AT WING WALLS

PERFORATED CONCRETE BUTTRESS WALLS ARE APPROXIMATE AND WILL LIKELY STEP BACK AT 2ND FLOOR.

5FT WIDE x 14" DEEP x CONT. CONC FOOTING BELOW BUTTRESS WALLS (NOT SHOWN)

STRUCTURAL COMPACTED BACKFILL INSTALLED AFTER 2ND AND THIRD FLOOR ARE INSTALLED. PERMANENT 3RD COURSE BRACING TO REMAIN (NOT SHOWN AS BELOW GRADE)

BUILD CONCRETE OR CMU ELEVATOR SHAFT FULL HEIGHT TO BRACE END WALL EXCAVATION.

1ST COURSE

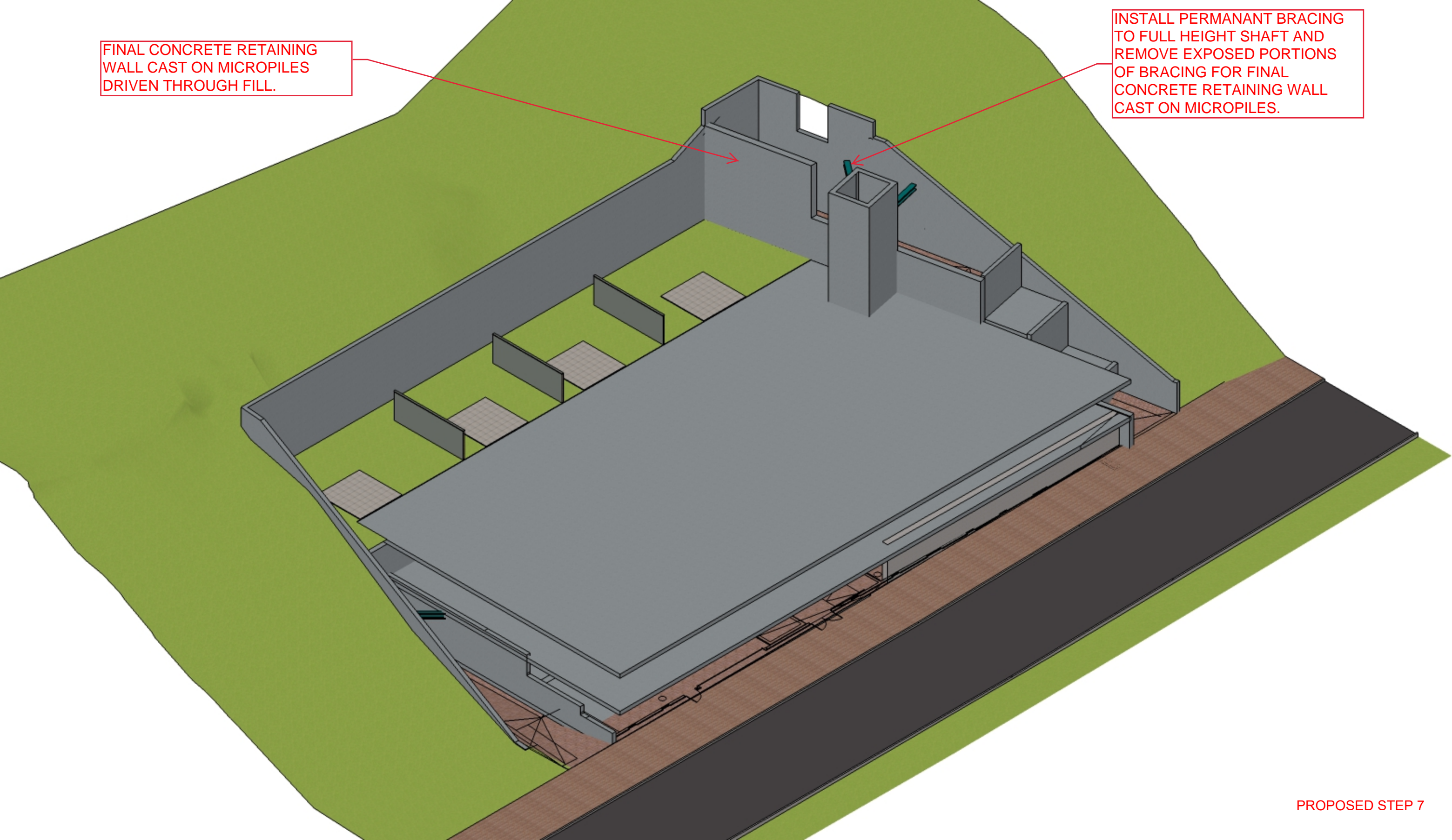
2ND COURSE

BEGIN CONSTRUCTION OF STEPPED RETAINING WALLS AFTER 2ND AND THIRD FLOOR ARE INSTALLED.

BUILD 2ND AND 3RD FLOOR. BOTH FLOORS CONSTRUCTED OF 6 1/2" TOTAL DEPTH 4,500PSI NORMAL WEIGHT CONCRETE ON GALV. 2" VLI 22 GAGE COMPOSITE METAL DECKING ON STEEL FRAMED BEAMS @ 8'-0" O.C. MAX.

FINAL CONCRETE RETAINING WALL CAST ON MICROPILES DRIVEN THROUGH FILL.

INSTALL PERMANANT BRACING TO FULL HEIGHT SHAFT AND REMOVE EXPOSED PORTIONS OF BRACING FOR FINAL CONCRETE RETAINING WALL CAST ON MICROPILES.



FINAL FACING OF EXPOSED
PILE AND LAG WALL TBD

CONSTRUCT TOP TWO FLOOR
OF WOOD FRAMING: 24" DEEP
P.E. TRUSSES SPANNING TO
CENTRAL 2x6 @ 16" O.C.
BEARING CORRIDOR WALLS
BUILT OFF CONCRETE SLAB @
3RD FLOOR.

